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86567 Hilgertshausen (DE). LEISER, Robert-Matthias  
[DE/DE]; Dunkelnberger Str. 30, 42697 Solingen (DE).

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(74) Agents: MEYERS, Hans-Wilhelm et al.; Postfach 10 22  
41, 50462 Köln (DE).

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(71) Applicant (for all designated States except US): NEXT-  
TEC GMBH [DE/DE]; Hemmelrather Weg 201, 51377  
Leverkusen (DE).

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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

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(54) Title: SORBENT MATERIAL HAVING A COVALENTLY ATTACHED PERFLUORINATED SURFACE WITH FUNC-  
TIONAL GROUPS

(57) Abstract: The present invention relates to a sorbent material having a solid support substantially modified with a fluorinated polymer coating which is covalently attached to the support and the fluorinated polymer coating is containing at least one functional group, methods of obtaining the sorbent material, the use of these materials for separation of substances, a chromatographic column or cartridge at least partially filled with the sorbent material of the invention, a membrane-like device comprising the sorbent material of the invention, a device comprising the sorbent material of the invention in loose form as well as a miniaturized device comprising the sorbent material.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/12517A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B01J20/32 G01N30/48 B01D15/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B01J B01D G01N C12N C12Q C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, COMPENDEX, INSPEC, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>DATABASE WPI Section Ch, Week 199807 Derwent Publications Ltd., London, GB; Class A89, AN 1998-075292 XP002277064 &amp; RU 2 080 905 C (BIOORGANIC CHEM INST), 10 June 1997 (1997-06-10) abstract</p> <p>---</p> <p>WO 01/96556 A (PROMETIC SCIENCES) 20 December 2001 (2001-12-20)</p> <p>page 4, line 29 - line 33 page 4, line 8 - line 10 page 4, line 19 page 6, line 1 - line 10 page 10; example 9 claim 10</p> <p>---</p>	1,2,6-9, 12, 14-18,21
Y		1,2,6-9, 12, 14-18,21
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*&\* document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
19 May 2004	03/06/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer  Hilgenga, K

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 079 155 A (G.B. COX) 7 January 1992 (1992-01-07) column 4, line 53 – line 56 column 4, line 63 – column 5, line 2 column 5, line 45 – line 50 column 8, line 6 – line 10 column 9, line 7 – line 25 ---	3,22,23
A	EP 0 621 074 A (E.I DU PONT DE NEMOURS AND COMPANY) 26 October 1994 (1994-10-26) column 3, line 14 – line 18 column 7, line 31 – line 50 ---	1,3,6,7, 9,16-18, 20,21
A	DATABASE WPI Section Ch, Week 199627 Derwent Publications Ltd., London, GB; Class A14, AN 1996-267181 XP000222720 & SU 1 839 325 A (BIO-ORG CHEM INST), 10 November 1995 (1995-11-10) abstract ---	1,2,6-8, 12, 15-18,21
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; November 1998 (1998-11) KAPUSTIN D V ET AL: "Composite fluoropolymer-containing sorbents for isolation and purification of biopolymers" Database accession no. PREV199900110788 XP000217877 abstract & BIOORGANICHESKAYA KHIMIYA, vol. 24, no. 11, November 1998 (1998-11), pages 868-876, ISSN: 0132-3423 ---	1,2, 16-18,21
A	WO 00/41807 A (MIRA DIAGNOSTICA GMBH) 20 July 2000 (2000-07-20) claims 1,2,7-9	1,2,6,7, 16-18, 20,21
A	& EP 1 148 945 B (NEXTEC) 18 December 2002 (2002-12-18) cited in the application claims 1,2,7-9 ---	1,2,6,7, 16-18, 20,21
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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/12517

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 522 994 A (J.M.J. FRECHET) 4 June 1996 (1996-06-04) column 5, line 8 - line 15 column 5, line 57 -----	4,5
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# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/12517

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